

12-07-01

12/04/01  
JC698 U.S. PTOUTILITY  
PATENT APPLICATION  
TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No. 03248.00038

First Inventor Anthony C. Mulligan, et al.

Title Aligned Composite Structures For Mitigation Of Impact Damage And Resistance To Wear In Dynamic Environments

Express Mail Label No. EL 820756232 US

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1.  Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)

2.  Applicant claims small entity status.  
See 37 CFR 1.27.

3.  Specification [Total Pages 33]  
(preferred arrangement set forth below)  
- Descriptive title of the Invention  
- Cross Reference to Related Applications  
- Statement Regarding Fed sponsored R & D  
- Reference to sequence listing, a table, or a computer program listing appendix  
- Background of the Invention  
- Brief Summary of the Invention  
- Brief Description of the Drawings (if filed)  
- Detailed Description  
- Claim(s)  
- Abstract of the Disclosure

4.  Drawing(s) (35 U.S.C. 113) [Total Sheets 4 1]

5. Oath or Declaration [Total Pages 3]  
a.  Newly executed (original or copy)  
b.  Copy from a prior application (37 CFR 1.63 (d))  
(for a continuation/divisional with Box 18 completed)  
i.  DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

6.  Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  
a.  Computer Readable Form (CRF)  
b. Specification Sequence Listing on:  
i.  CD-ROM or CD-R (2 copies); or  
ii.  paper  
c.  Statements verifying identity of above copies

## ACCOMPANYING APPLICATIONS PARTS

9.  Assignment Papers (cover sheet & document(s))  
10.  37 C.F.R. §3.73(b) Statement  Power of Attorney (when there is an assignee)

11.  English Translation Document (if applicable)

12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations

13.  Preliminary Amendment

14.  Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)

15.  Certified Copy of Priority Document(s) (if foreign priority is claimed)

16.  Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.

17.  Other: Certificate of Mailing Via U.S. Express Mail

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation  Divisional  Continuation-in-part (CIP)

of prior application No: \_\_\_\_\_ / \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_

Group / Art Unit: \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

 Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or  Correspondence address below

Name					
	Banner & Witcoff, Ltd.				
Address	10 South Wacker Drive				
	Suite 3000				
City	Chicago	State	Illinois	Zip Code	60606
Country	United States of America	Telephone	312-715-1000	Fax	312-715-1234

Name (Print/Type)	Rebecca P. Rokos	Registration No. (Attorney/Agent)	42,109
Signature	Rebecca P. Rokos	Date	December 4, 2001

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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JC698 10/04/2001  
12/04/01

# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

**TOTAL AMOUNT OF PAYMENT** (\$ 496)

Complete if Known

Application Number	Not Yet Assigned
Filing Date	Concurrently Herewith
First Named Inventor	Anthony C. Mulligan
Examiner Name	Not Yet Assigned
Group / Art Unit	Not Yet Assigned

Attorney Docket No. 03248.00038

**METHOD OF PAYMENT (check one)**

1.  The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account Number	01-0850
Deposit Account Name	Banner & Witcoff, Ltd.
<input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27	

2.  Payment Enclosed:

Check  Credit card  Money Order  Other

**FEE CALCULATION (continued)**

3. ADDITIONAL FEES		Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)				
105	130	205	65	Surcharge - late filing fee or oath			
127	50	227	25	Surcharge - late provisional filing fee or cover sheet.			
139	130	139	130	Non-English specification			
147	2,520	147	2,520	For filing a request for reexamination			
112	920*	112	920*	Requesting publication of SIR prior to Examiner action			
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action			
115	110	215	55	Extension for reply within first month			
116	400	216	200	Extension for reply within second month			
117	920	217	460	Extension for reply within third month			
118	1,440	218	720	Extension for reply within fourth month			
128	1,960	228	980	Extension for reply within fifth month			
119	320	219	160	Notice of Appeal			
120	320	220	160	Filing a brief in support of an appeal			
121	280	221	140	Request for oral hearing			
138	1,510	138	1,510	Petition to institute a public use proceeding			
140	110	240	55	Petition to revive - unavoidable			
141	1,280	241	640	Petition to revive - unintentional			
142	1,280	242	640	Utility issue fee (or reissue)			
143	460	243	230	Design issue fee			
144	620	244	310	Plant issue fee			
122	130	122	130	Petitions to the Commissioner			
123	50	123	50	Processing fee under 37 CFR 1.17 (q)			
126	180	126	180	Submission of Information Disclosure Stmt			
581	40	581	40	Recording each patent assignment per property (times number of properties)			
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))			
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))			
179	740	279	370	Request for Continued Examination (RCE)			
169	900	169	900	Request for expedited examination of a design application			
Other fee (specify) _____							

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)**

(\$ 0)

\*\*or number previously paid, if greater; For Reissues, see above

**SUBMITTED BY**

Complete if applicable					
Name (Print/Type)	Rebecca P. Rokos	Registration No. Attorney/Agent)	42,109	Telephone	312-715-1000
Signature	<i>Rebecca P. Rokos</i>			Date	December 4, 2001

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**Burden Hour Statement:** This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

## Certificate of Mailing by Express Mail under 37 CFR 1.10

Express Mail No.: EL 820756232 US

Date Deposited: December 4, 2001

I hereby certify that the attached correspondence, identified below, is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" under 37 CFR § 1.10 on the date indicated above in an envelope addressed to:

U.S. Patent and Trademark Office  
Box Patent Application  
P. O. Box 2327  
Washington, D.C. 22202

By: Rebecca P. Doker  
(person actually depositing)

Application Number: Not Yet Assigned  
Filing Date: Concurrently Herewith  
First Named Inventor: Anthony C. Mulligan, et al.  
Group Art Unit: Not Yet Assigned  
Examiner Name: Not Yet Assigned  
Attorney Docket No. 03248.00038

1. Utility Patent Application Transmittal;
2. Fee Transmittal for FY 2002;
3. Application Data Sheet;
4. Patent Application (33 sheets including Abstract);
5. Drawings ( 4 sheets with Fibures 1-4, 5a-5c and 6-7);
6. Joint Declaration for Patent Application; and
7. Return Postcard

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

PATENT APPLICATION SERIAL NO. \_\_\_\_\_

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE  
Fee Record Sheet

12/11/2001 RMEBRAHT 00000052 010850 10005084

01 FC:201	370.00 CH
02 FC:203	45.00 CH
03 FC:202	126.00 CH
04 FC:204	140.00 CH

PTO-1556  
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